

XLT Radiant Oven Installation & Operation Manual



Read This Manual Before Using This Appliance.

Current versions of this manual, Rough-In Specifications, Parts & Service Manual, Architectural Drawings, & a list of International Authorized Distributors are available at: www.xltovens.com

For use with the following XLT Radiant Oven Versions: Standard (S) Α А

World (W)





TABLE OF CONTENTS

2

Warning & Safety Information	
Warranty	6
Installation Responsibilities	
Receiving & Inspection	9
Oven Description	
Recommended Tool List	
Oven Crate Dimensions	
Oven Dimensions & Weight	
Oven Electrical Requirements	
Oven Only Rough-In Specifications	17
Oven Assembly	
Oven Connection	
Oven Fire Suppression	
Oven Ventilation Guidelines	
Oven Initial Start-Up	
Oven Operation	
Oven Operator Controls	
Oven Cleaning	
Oven Maintenance	
Oven Troubleshooting	
Electrical Schematics	
Certifications	
Oven Start-Up Checklist	45
Notes	

Revision History Table		
Revision	Comments	Date
В	Updated Oven Operating Temperature Range Table (Pg. 29), Updated Oven Operator Controls High Temp Description (Pg. 31), Updated Oven Operator Controls Low Temp Description (Pg. 31)	02/04/2020
С	Updated Metal Skid Dimensions (Pg. 13), Added Time And Temperature Setting Note (Pg. 28)	06/11/2010



WARNING & SAFETY INFORMATION

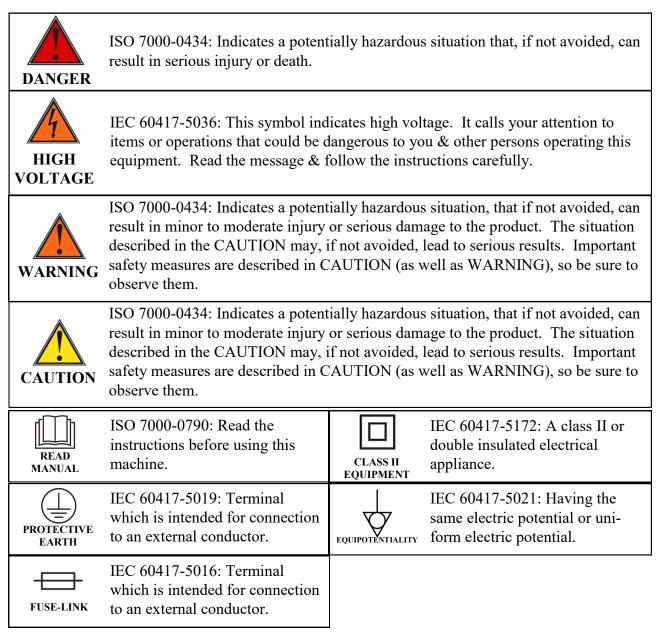
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XLT Ovens has spent millions of dollars designing and testing our products as well as developing Installation & Operation Manuals. These manuals are the most complete and easiest to understand in the industry. However, they are worthless if they are not followed.

We have witnessed store operators and building owners lose many thousands of dollars in lost revenue due to incorrect installations. We highly recommend you follow all instructions given in this manual as well as follow best practices in plumbing, electrical, and HVAC building codes.

Definitions & Symbols

A safety instruction (message) includes a "Safety Alert Symbol" & a signal word or phrase such as **DANGER**, **WARNING** or **CAUTION**. Each signal word has the following meaning:



WARNING & SAFETY INFORMATION



SAFETY DEPENDS ON YOU



This appliance is for professional use by qualified personnel. This appliance must be installed by qualified persons in accordance with the regulations in force. This appliance must be installed with sufficient ventilation to prevent the occurrence of unacceptable concentrations of substances harmful to health in the room in which it is installed. This appliance needs an unobstructed flow of fresh air for satisfactory operation & must be installed in a suitably ventilated room in accordance with current regulations. This appliance should be serviced by qualified personnel at least every 12 months or sooner if heavy use is expected.



CAUTION

This appliance is not intended for use by persons (including children) with reduced physical, sensory or mental capabilities, or lack of experience and knowledge, unless they have been given supervision or instruction concerning use of the appliance by a person responsible for their safety. Children should be supervised to ensure that they do not play with the appliance.



These appliances are intended to be used for commercial applications, for example in kitchens of restaurants, canteens, hospitals, and in commercial enterprises such as bakeries, butcheries, etc., but not for continuous mass production of food.



Improper installation, adjustment, alteration, service or maintenance can cause property damage, injury, or death. Read the installation, operating and maintenance instructions thoroughly before installing, using, or servicing this equipment.



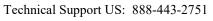
WARNING & SAFETY INFORMATION



FOR YOUR SAFETY

Do not store or use gasoline or other flammable liquids or vapors in the vicinity of this or any other appliance.

- Do not restrict the flow of ventilation air to the unit. Provide adequate clearance for operating, cleaning, maintaining the unit is in the installed position.
- Keep the area free & clear of combustible material. <u>DO NOT SPRAY AEROSOLS IN THE</u> <u>VICINITY OF THIS APPLIANCE WHILE IT IS IN OPERATION.</u>
- Ovens are certified for installation on combustible floors.
- Electrical schematics are located inside the control box of the oven & and in this manual. Disconnect input power to the unit before performing any maintenance.
- This unit requires a ventilation hood. The installation must conform to local codes.
- This unit must be operated by the same voltage, phase, & frequency of electrical power as designated on the nameplate label located on the side of the unit.
- Minimum clearances must be maintained from combustible & non-combustible construction materials.
- Follow all local codes when installing this unit.
- Follow all local codes to electrically ground the unit.
- Appliance is not to be cleaned with high pressure water.
- XLT ovens are certified for use in stacks of up to four (4) units of XLT products. Integration of other manufacturer's products into an oven stack is not recommended, & voids any warranties. XLT Ovens assumes no liability for mixed product applications.
- Failure to call XLT Customer Service at 1-888-443-2751 prior to contacting a repair company voids any & all warranties.
- PLEASE RETAIN THIS MANUAL FOR FUTURE REFERENCE.
- This appliance operates below 70 dBA.







Warranty - US and Canada

Rev A

Approval Date: 08/01/2019

XLT warrants Radiant Ovens manufactured after August 01, 2019 to be free from any defect in material and workmanship under normal use for seven (7) years from the date of original purchase by the end user, and further warrants conveyor shafts and conveyor bearings for ten (10) years. XLT further warrants all equipment to be free from rust for ten (10) years from the date the equipment is originally purchased. In the event of a part failure, XLT will furnish a replacement part and pay for all labor associated with the replacement of the part. If upon inspection XLT determines that the part is not defective, all incurred costs will be the responsibility of the end user purchaser. This warranty is extended to the original end user purchaser and is not transferable without prior written consent of XLT. Damages are limited to the original purchase price.

DUTIES OF THE OWNER:

- The owner must inspect the equipment and crates at time of receipt. Damage during shipment is to be immediately reported to the carrier and also to XLT
- The equipment must be installed and operated in accordance with the Installation & Operations Manual furnished with the unit
- This warranty shall not excuse the owner from properly maintaining the equipment in accordance with the Installation & Operation Manual furnished with the unit
- A copy of the "Initial Start-Up Checklist" must be filled out and returned to XLT when the unit is initially installed, and/or when the unit is removed and installed in another location
- The electric utilities must be connected to the equipment and installed by locally licensed contractors
- Failure to contact XLT prior to contacting a repair company for warranty work voids any and all warranties

WHAT IS NOT COVERED:

- Freight damage
- Overtime charges
- Any part that becomes defective because of utility services (power surges, high or low voltages, or improper utility connections)
- Any part that becomes defective because of moisture and/or other contaminants
- Conveyor belts
- Filters
- Painted or Powder Coated surfaces
- Normal maintenance or adjustments
- This warranty shall not apply if the equipment or any part is damaged as a result of accident, casualty, alteration, misuse, abuse, improper cleaning, improper ventilation, improper installation, improper operation, natural disasters, or man-made disasters

CLAIMS HANDLED AS FOLLOWS:

Should any such defect be discovered, XLT must be notified. Upon notification, XLT will arrange for necessary repairs to be made by an authorized service agent. Denial of services upon the arrival of an authorized service agent will release XLT of any and all warranty obligations.





Warranty - International

Rev A

Approval Date: 08/01/2019

XLT warrants Radiant Ovens manufactured after August 01, 2019 to be free from any defect in material and workmanship under normal use for five (5) years from the date of original purchase by the end user, and further warrants conveyor shafts, and conveyor bearings for ten (10) years. XLT further warrants all equipment to be free from rust for ten (10) years from the date the equipment is originally purchased. In the event of a part failure, XLT will furnish a replacement part and pay for all labor associated with the replacement of the part. If upon inspection XLT determines that the part is not defective, all incurred costs will be the responsibility of the end user purchaser. This warranty is extended to the original end user purchaser and is not transferable without prior written consent of XLT. Damages are limited to the original purchase price.

DUTIES OF THE OWNER:

- The owner must inspect the equipment and crates at time of receipt. Damage during shipment is to be immediately reported to the carrier and also to the Distributor/Service Provider
- The equipment must be installed and operated in accordance with the Installation & Operation Manual furnished with the unit
- This warranty shall not excuse the owner from properly maintaining the equipment in accordance with the Installation & Operation Manual furnished with the unit
- A copy of the "Initial Start-Up Checklist" must be filled out and returned to Distributor/Service Provider and XLT when the unit is initially installed, and/or when the unit is removed and installed in another location
- The electric utilities must be connected to the equipment and installed by locally licensed contractors
- Failure to contact the Distributor/Service Provider prior to contacting a repair company for warranty work voids any and all warranties

WHAT IS NOT COVERED:

- Freight damage
- Overtime charges
- Any part that becomes defective because of utility services (power surges, high or low voltages, or improper utility connections)
- Any part that becomes defective because of moisture and/or other contaminants
- Conveyor belts
- Filters
- Painted or Powder Coated surfaces
- Normal maintenance or adjustments
- This warranty shall not apply if the equipment or any part is damaged as a result of accident, casualty, alteration, misuse, abuse, improper cleaning, improper ventilation, improper installation, improper operation, natural disasters, or man-made disasters

CLAIMS HANDLED AS FOLLOWS:

Should any such defect be discovered, the Distributor/Service Provider must be notified. Upon notification, Distributor/Service Provider will arrange for necessary repairs to be made by an authorized service agent. Denial of services upon the arrival of an authorized service agent will release XLT and Distributor/Service Provider of any and all warranty obligations.



INSTALLATION RESPONSIBILITIES

Responsibility	Service Company	Owner/ Contractor
Site Survey: Verify electrical capabilities	Х	
Assembly of new ovens per XLT Installation & Operation Manual		
Base assembled and set in place	Х	
Ovens moved and stacked with proper lifting equipment	Х	
Peel all PVC	Х	
Connect cord anchorage to incoming electrical supply	Х	
Connect electrical supply	Х	
Connection may require Permit and Code Inspections		Х
Relocate Make-Up-Air to enter the room at the ends of the ovens		Х
Start-up per XLT Installation & Operation Manual	Х	
Verify oven functions, adjust as necessary	Х	



RECEIVING & INSPECTION NOTIFY CARRIER OF DAMAGE AT ONCE

Upon receiving of all goods shipped by a Common Carrier, check for any exterior damage that may indicate interior damage. If conditions permit, open all crates & do a full inspection for any damage while the delivery driver is still there. If there is damage, please note on the delivery receipt & call the carrier to make a freight damage claim within 24 hours of receipt. Failure to make a damage claim within the first 24 hours may void the opportunity to have the claim resolved. All freight damage must also be reported to XLT.

XLT wants you to be totally satisfied with every aspect of owning & using your radiant oven. Your feedback, both positive & negative, is very important to us as it helps us understand how to improve our products & our company. Our goal is to provide you with equipment that we are proud to build & you will be proud to own.

To receive technical support for the radiant oven you purchased, XLT has qualified personnel that can provide assistance on any type of XLT equipment problem you may experience. Technical support is available 24/7/365 or visit <u>www.xltovens.com.</u>



Installation of all electric appliances should only be performed by a qualified professional who has read & understands these instructions & is familiar with proper safety precautions. Read this manual thoroughly before installing or servicing this equipment.



Notes indicates an area or subject of special merit, emphasizing either the product's capability or common errors in operation or maintenance.



Tips give a special instruction that can save time or provide other benefits while installing or using the product. The tip calls attention to an idea that may not be obvious to first-time users of the product.

Save this Manual

This document is the property of the owner of this equipment.

XLT reserves the right to make changes in design & specifications, and/or make additions to or improvements to its product without imposing any obligations upon itself to install them in products previously manufactured.

All Right Hand & Left Hand designations in this manual are from the point of view as if standing directly in front of the oven.



OVEN DESCRIPTION

This manual covers the following XLT Radiant Oven model:

Ovens	
R3A-2336-xxxxx	

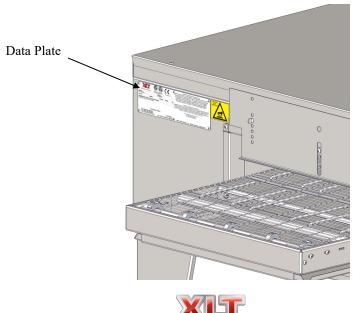
The first 2 digits of the model number after the dash represent the conveyor width and the last 2 digits indicate the bake chamber length. The five x's after those numbers represents the oven configuration number. The ovens may be used in a single, double, triple, or quad stack configuration. All models have a single control box, which can be mounted on either the right-hand or left-hand side, and are heated by electric elements. All models can be configured for a split belt conveyor.

OVEN DESCRIPTION

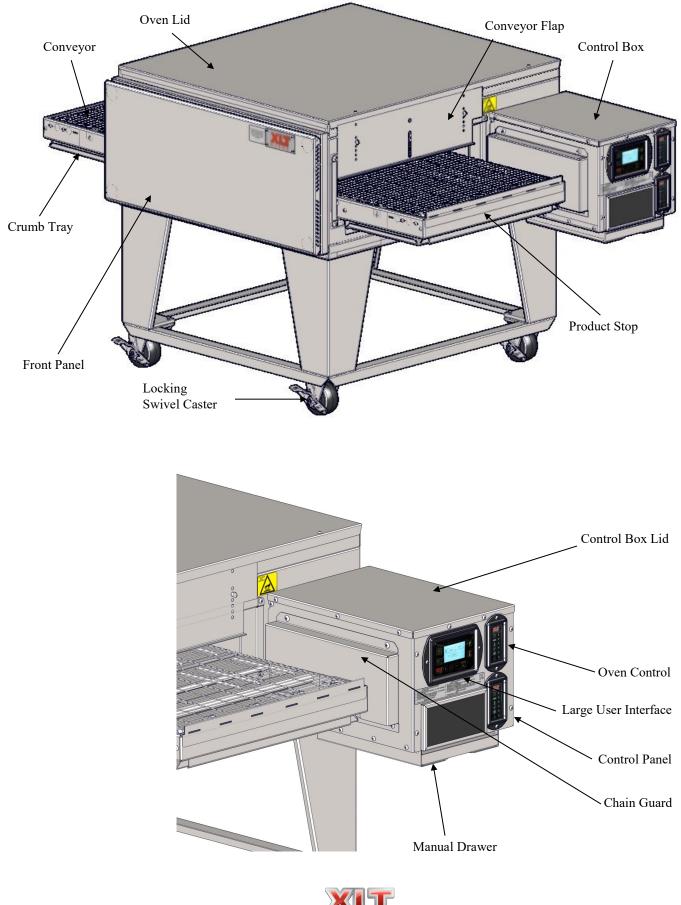
Food product is placed on the stainless steel wire conveyor belt on one side of the oven. The conveyor then transports the food through the bake chamber at a user-controlled speed. This provides repeatable and uniform food cooking. The conveyors can be easily configured to move either left-to-right or right-to-left with a simple programming change. Precise temperatures are user adjustable and maintained by a digital control.

An easily removable front panel allows the full cleaning of the oven interior. All exposed oven surfaces both exterior and interior are stainless steel. The conveyor is a three piece design and is removed in sections. Simple tools are required for disassembly of the conveyor belt. Basic hand tools are required for disassembly/cleaning of the conveyor frame and oven interior. The oven itself is mounted on lockable swivel casters for easy moving and maintenance.

Accessories such as conveyor shelves, base shelves, fire suppression components, and perforated crumb trays are available from XLT. In addition, moving equipment such as carts and lifting jacks are available to help install and move ovens. Please contact XLT or your Authorized Distributor for more information.



OVEN DESCRIPTION



RECOMMENDED TOOL LIST

Sockets	QTY.
1/4" Drive	
3/16	1
7/32	1
1/4	1
9/32	1
5/16	1
3/8	1
7/16	1
1/2	1
3/8" Drive	
7/16	1
1/2	1
9/16	1
5/8	1
3/4	1
11/16	1
13/16	1
7/8	1
15/16	1
1"	1
3/8" Drive Allen	
1/8	1
3/16	1
7/32	1
1/4	1
5/16	1
3/8	1

T-Handle Allen	QTY.
3/32	1
7/64	1
1/8	1
3/16	1
1/4	1
7/32	1

Ratchets	QTY.
7" 1/4" Drive	1
12" 3/8" Drive	1

Extensions	QTY.
1/4" Drive	
3"	1
6"	1
10"	1
3/8" Drive	
1-1/2"	1
3"	1
6"	1
10"	1

Gearwrench	QTY.
5/16	1
3/8	1
7/16	1
1/2	1
9/16	1
5/8	1
11/16	1
3/4	1

Screw Drivers	QTY.
#2 Phillips	1
#1 Phillips	1
1/4" Flat Blade	1
1/8" Flat Blade	1

Nut Driver	QTY.
5 MM	1
8 MM	1

Pliers	QTY.
Diagonal SM	1
Diagonal Std	1
Slip Joint Std	1
Needle Nose	1
Wire Strippers	1
Wire Crimpers	1

Hammer	QTY.
8 oz. Ball Peen	1

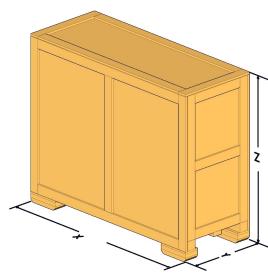
Drills	QTY.
Cordless Micro	1
Cordless Std	1

Bits	QTY.
6" #2 Phillips	1
3/16" Drill Bit	1
5/32" Drill Bit	1
#10-24 Tap	1
#8-32 Tap	1

Miscellaneous	QTY.
Volt/Amp Meter	1
Heat Probe	1
Molex Extractor	1
Molex Crimper	1
Straight Pick 6"	1
90 Degree Pick 6"	1
7" Zip Ties	20
Flashlight	1
25' Tape Measure	1
Electrical Tape	1
Pipe Dope	1
White Lithium Grease	1
Stainless Steel Cleaner	1

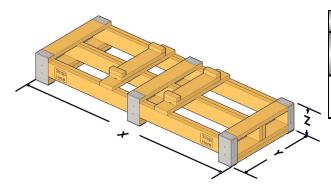


OVEN CRATE DIMENSIONS INTERNATIONAL WOOD CRATES



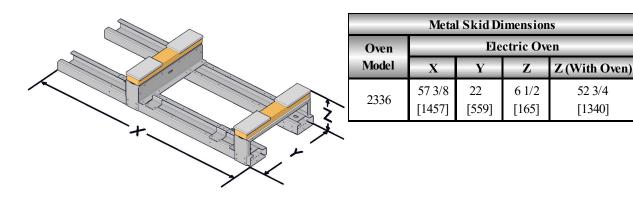
	International Wood Crate Dimensions									
	Oven	Electric Ovens								
	Model	X	Y	Z						
•	2336	84	29 3/4	66 3/8						
	2330	[2134]	[756]	[1686]						

DOMESTIC WOOD CRATES



Domestic Wood Crate Dimensions								
Oven	en							
Model	X	Y	Z	Z (With Oven)				
2336	85 3/4 [2178]	31 3/4 [806]	13 1/2 [343]	59 3/4 [1518]				

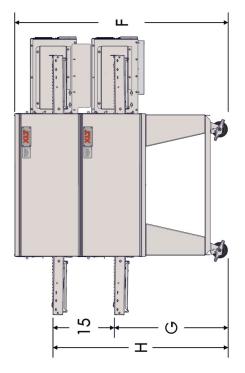
METAL SKIDS (Containers Only)

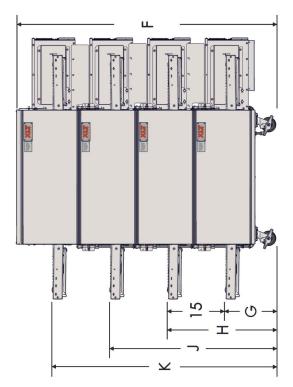


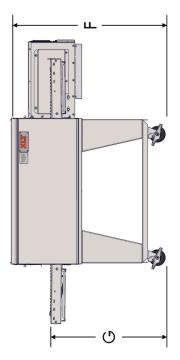
NOTE: All dimensions in inches [millimeters], $\pm 1/4$ [6], unless otherwise noted.

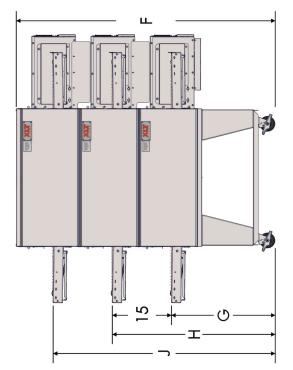


Technical Support US: 888-443-2751









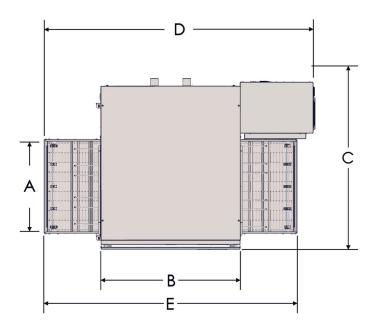


OVEN DIMENSIONS & WEIGHT

SINGLE	А	В	С	D	Е	F	G H	Н	Т	K	OVEN	CR	ATED WEIC	HT		
OVEN	A	Б	C	D	Ľ	г	U	11	J	K	WEIGHT	INTL. WOOD	DOM. WOOD	METAL SKID		
2336	23	36	46 3/4	70 1/4	65 1/2	38 1/4	29	29	29 _{N/A}	NT/A	N/A	N/A	653	785	759	720
2550	[584]	[914]	[1187]	[1784]	[1664]	[972]	[730]	IN/A	IN/A	IN/A	[297]	[357]	[345]	[327]		
DOUBLE	А	В	С	D	Е	F	G	Н	I	K	OVEN	CR	ATED WEIC	ΉT		
STACK	A	D	C	D	E	Г	0	п	J	K	WEIGHT	INTL. WOOD	DOM. WOOD	METAL SKID		
2336	23	36	46 3/4	70 1/4	65 1/2	53 3/4	28 1/2	44	N/A	N/A	1183	1446	1395	1316		
2550	[584]	[914]	[1187]	[1784]	[1664]	[1365]	[724]	[1118]	IN/A	IN/A	[537]	[656]	[633]	[597]		
TRIPLE	٨	В	С	D	Е	F	G	Н	т	K	OVEN	CR	ATED WEIC	HT		
STACK	A	D	C	D	E	Г	U	п	J	K	WEIGHT	INTL. WOOD	DOM.WOOD	METAL SKID		
2226	23	36	46 3/4	70 1/4	65 1/2	67 3/4	27	42 1/2	58	NI/A	1760	2154	2077	1959		
2336	[584]	[914]	[1187]	[1784]	[1664]	[1721]	[686]	[1080]	[1473]	N/A	[798]	[978]	[943]	[889]		

QUAD	Δ	B	C	D	Е	F	G	Н	T	T	K	OVEN	CR	ATED WEIG	HT
STACK	A	D	C	D	L	1	0	11	5	K	WEIGHT	INTL. WOOD	DOM. WOOD	METALSKID	
2336	23	36	46 3/4	70 1/4	65 1/2	69 3/4	13 1/2	29	44 1/2	60	2243	2768	2666	2508	
2330	[584]	[914]	[1187]	[1784]	[1664]	[1772]	[343]	[737]	[1130]	[1524]	[1017]	[1256]	[1210]	[1138]	

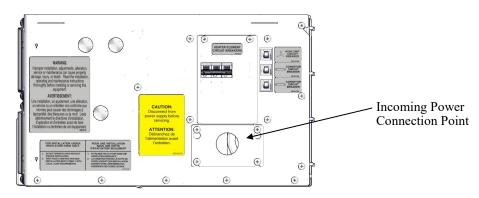
NOTE: All dimensions in inches [millimeters], $\pm 1/4$ [6], unless otherwise noted. All weights in pounds [kilograms] unless otherwise noted



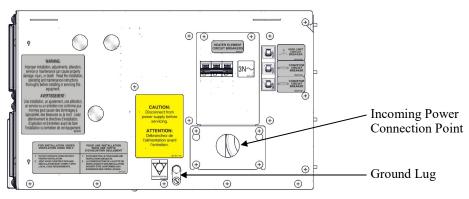
	Electric Oven Electrical Requirements										
	Per FACH Oven										
Oven		S	TANDAR	D	WORLD						
Model	Volts AC	Amps	Hertz	Phase	KW	Volts AC	Amps	Hertz	Phase	KW	
2336	208/240	31/27	60	3	9.6	380	24	50	3	10.5	
	4 Wire Service - L1, L2, L3				5 Wire Service - L1, L2, L3 N						
	+1 Ground (per oven)				_	+2 Gr	ounds (per	oven)			

FOR EACH OVEN:

- A separate disconnect switch must be provided for each oven deck.
- Electrical connections must be accessible when the ovens are in the installed position.
- Electrical connections must meet all local code requirements.
- Ensure ovens are grounded per local codes.



Control Box Rear - Standard

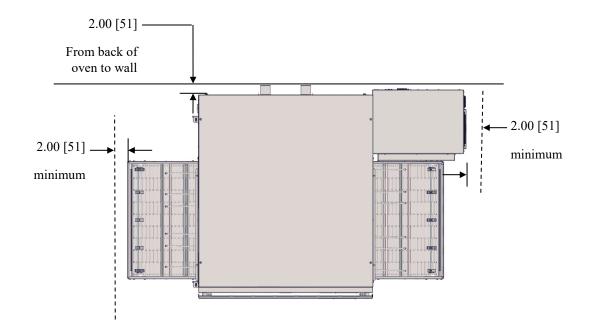


Control Box Rear - World



OVEN ONLY ROUGH-IN SPECIFICATIONS

These ovens are suitable for installation on either combustible or non-combustible floors, and adjacent to either combustible or non-combustible walls. The minimum clearances are 2in./51mm, measured from the exit end of the conveyor, the rear panel of the oven, and from the control panel.



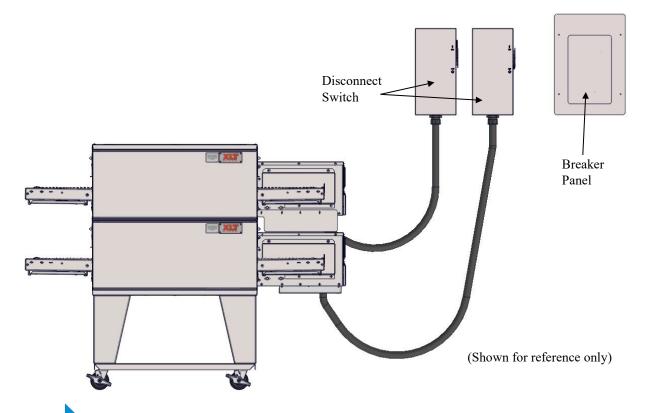


Utilities must be easily accessible when the ovens are in the installed position. Do not install utilities behind the ovens.

NOTE: All dimensions in inches [millimeters], $\pm 1/4$ [6], unless otherwise noted.



17



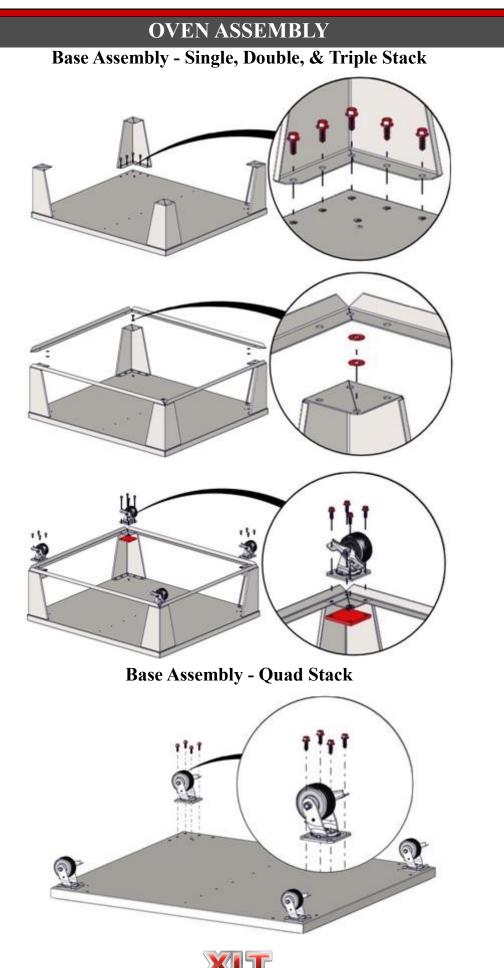
NOTE

All installations must conform to local building and mechanical codes. It is required that the ovens be placed under a ventilation hood to provide exhaust ventilation and adequate air supply.

NOTE

Equipment must be installed with cord anchorage to relieve strain on conductors, twisting of terminals, and abrasions to insulation.





Technical Support INTL: 316-943-2751

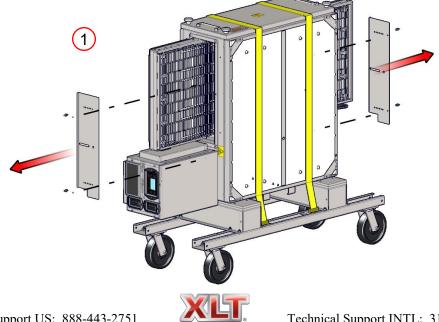
19

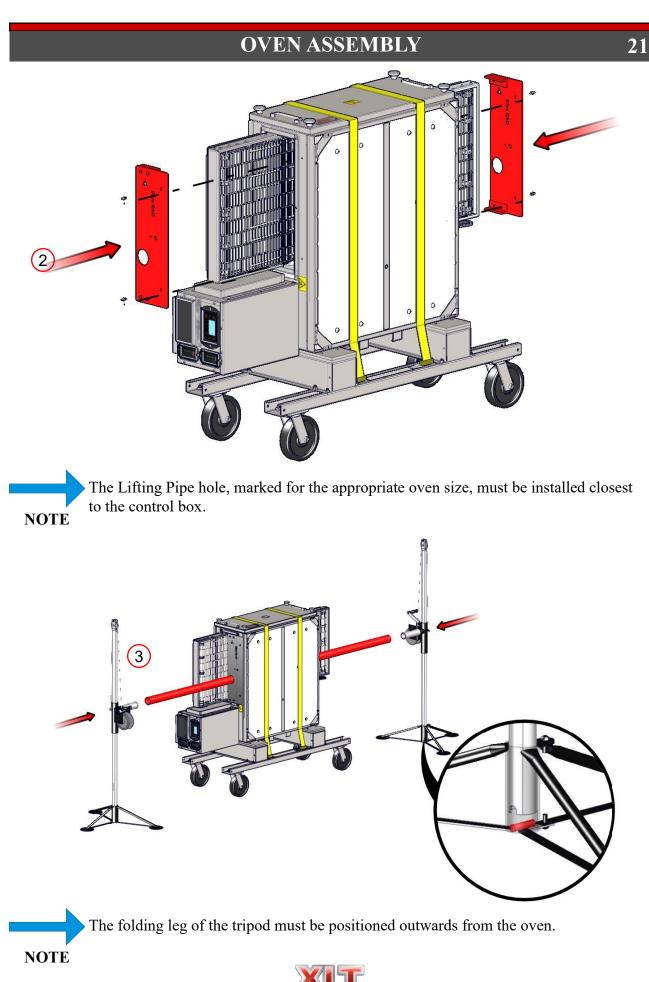
OVEN ASSEMBLY

WARNING & SAFETY INFORMATION

XLT ovens can easily be moved and stacked with the proper lifting equipment. The use of XLT approved lifting equipment is highly recommended. Contact XLT for more information.

DANGER	 These ovens are heavy & can tip or fall causing bodily injury. NEVER place any part of your body beneath any oven that is suspended by the lifting jacks. A crush hazard exists if the oven falls or slips. DO NOT place your hands on the lifting jack vertical pole beneath the jack's winch. As the jack's winch descends when you turn the jack handle, a pinch point is created between the winch & the pole.
CAUTION	BE CAREFUL when rolling the oven on the cart, especially when going up or down ramps & over bumps. Leave the straps/banding on until the oven is near the assembly area.
DANGER	 Make sure that the notch on tube of the winch assembly is aligned with the pin in the tripod base as shown. These alignments are important and keep the jack aligned properly. Check for smooth operation. The cable should not be pinched and should pass smoothly over the pulley on top of the pole assembly. Inspect cable prior to each use. If cable is frayed or shows signs of excessive wear and tear, DO NOT USE until cable is replaced. At a minimum replace the cable annually with wire rope that meets or exceeds the jack manufacturer's specifications. Do not exceed the stated capacity of the jack.
	and understand the next 5 steps first. They illustrate how to move the ovens into posi- c operation.





Technical Support US: 888-443-2751

OVEN ASSEMBLY

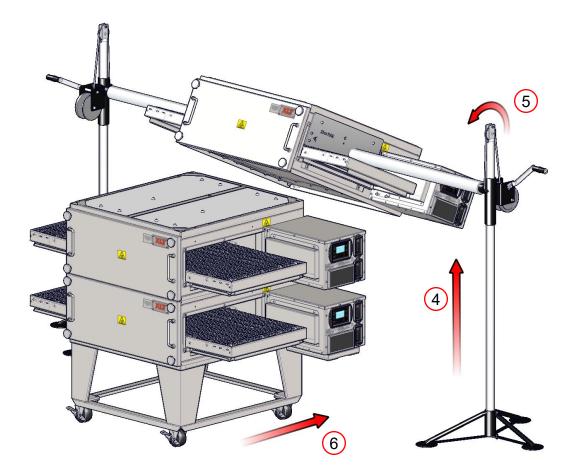
Stacking the Ovens



DANGER

Failure to engage the Lifting Jacks into the Lifting Pipe properly and completely will result in damage, injury, or death from a falling oven.

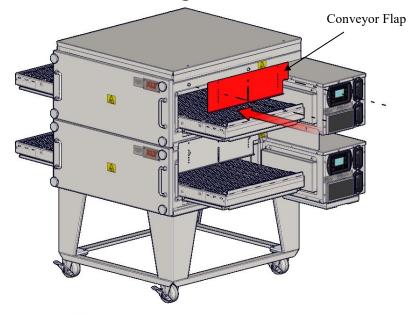
- Both jacks should be raised in unison, otherwise they may bind and a dangerous situation will develop.
- Do not put any part of yourself under the oven at any time.
- The Oven is top heavy. Be careful.

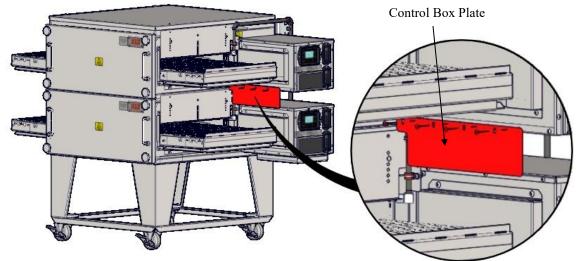




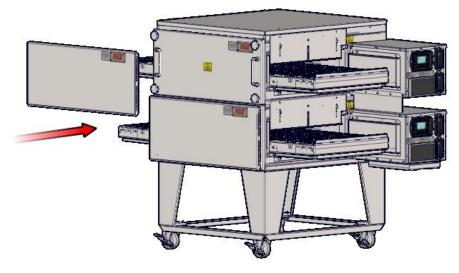
OVEN CONNECTION

Installing Accessories





Attaching Extended Front





Physical Location & Spacing Requirements

These ovens are suitable for installation on either combustible or non-combustible floors, and adjacent to either combustible or non-combustible walls. The minimum clearances are 2in./51mm, measured from the exit end of the conveyor and from the rear panel of the oven, and 6in./152mm from the control panel.

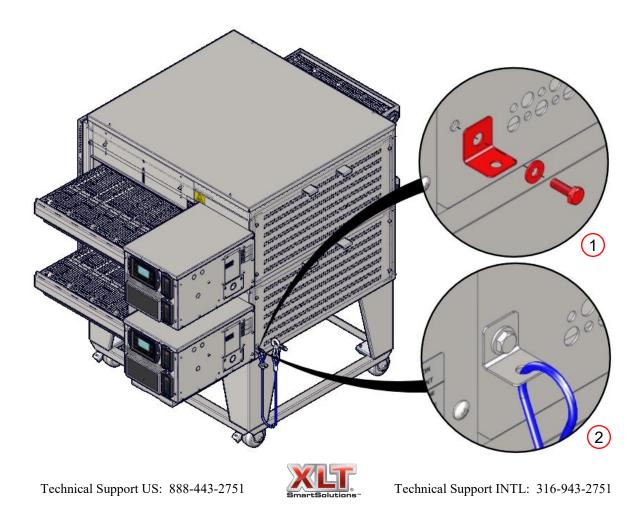
All installations must conform to local building and mechanical codes.

NOTE

Restraint

Because all ovens are equipped with casters, all installations must be configured with a restraint to limit the movement of the oven without depending on the electric power supply cord to limit the oven movement. One (1) restraint kit, which includes one (1) eye bolt, one (1) stainless steel clip & a cable, is required for each oven stack, regardless if used on a single, double, triple, or quad configuration. The clip should be installed in the lowest hole of the back wall on the control end of the lowest oven in the stack. The lag eye bolt must be installed into a structural member of a wall or the floor. It is the owner's responsibility to ensure the restraint is installed correctly.

Upon completion of performing any service or cleaning functions that require removal of the restraint, insure that it is correctly re-attached to the oven.



24

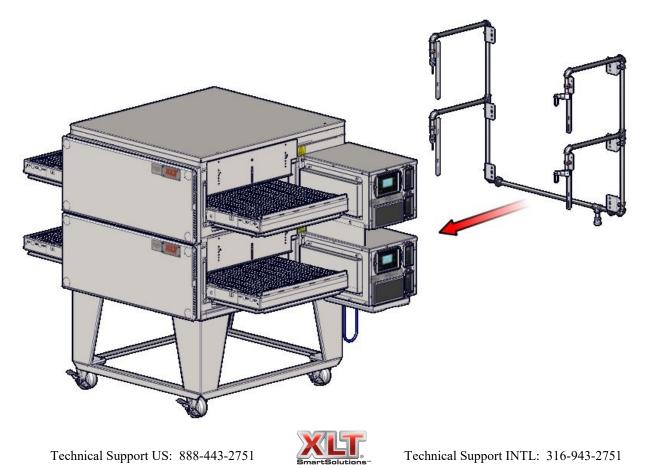
OVEN FIRE SUPPRESSION

The requirement for fire suppression systems vary by location and the authority having jurisdiction. If you are required to install fire suppression on your oven, a pre-assembled piping kit is available that utilizes pre-existing holes that simplify installation and future service.

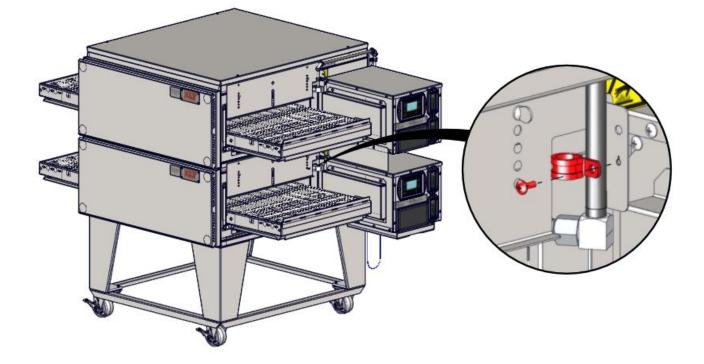


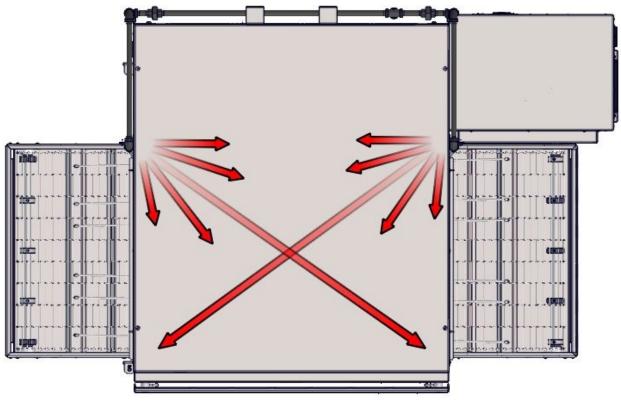
This design has been tested and approved to successfully comply with fire suppression codes. It uses only two (2) nozzles per bake chamber, and allows crumb trays, chain guards, and all other accessories to be easily removed. The kit does not interfere with any operations or maintenance.

For detailed information regarding fire suppression, see manual RD-9011 Fire Suppression Installation for XLT Hoods and XLT Ovens.



OVEN FIRE SUPPRESSION







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26

OVEN VENTILATION GUIDLINES

Ventilation Requirements

A powered ventilation hood is required to remove heat and vapors. Some provision must be made to replenish the amount of air that is extracted from the building. The hood and HVAC installation must meet local building and mechanical codes. Requirements vary throughout the country depending upon location. Proper ventilation is the oven owner's responsibility.

Ventilation Guidelines

Obtain information from the authority having jurisdiction to determine the requirements for your installation. Your ventilation hood supplier and HVAC contractor should be contacted to provide guidance. An air balance test is highly recommended and should be performed by a licensed contractor. A properly engineered and installed ventilation hood and HVAC system will expedite approval, reduce all maintenance costs, and provide a more comfortable working environment. XLT also recommends that the operator controls for the ovens and the operator control for the exhaust fan be interlocked so that the exhaust fan gets energized whenever the ovens are turned on. For more information, see the following links at <u>xltovens.com</u>:

Kitchen Ventilation Design Guide 1 Kitchen Ventilation Design Guide 2 Kitchen Ventilation Design Guide 3 Kitchen Ventilation Design Guide 4

Ventilation Performance Test

After the oven and ventilation hood have been installed and are operating, a smoke candle can be used to "see" if the heat and vapors are being completely extracted. The test procedure is outlined below:



DO NOT wear loose clothing, jewelry or long hair while performing this test. These create a danger of becoming caught in moving parts which may cause injury or damage to equipment.

• The oven

must be operating at 450°-500°F / 232°-260°C.

- The conveyor must not be moving.
 - Remove chain guard from side of the control box.
 - Lift conveyor up and move into bake chamber approximately three (3) inches.
 - Remove chain/s from sprocket/s on side of the conveyor assembly. CAUTION the sprocket of the Conveyor motor will still be moving.
- The ventilation hood exhaust fan must be turned on.
- Put a smoke candle in a pan on the conveyor belt at the center of the oven.
- Observe the smoke pattern coming out of the oven.
- Repeat the smoke candle test for each oven, as well as when all ovens are operating.

The ventilation hood must capture all of the smoke from the oven.



OVEN INITIAL START-UP

After the exhaust fan has been adjusted to completely capture and contain the heat, there needs to be a corresponding amount of make up air (MUA) introduced into the building to offset the amount of air volume being removed. An air balance test can determine the proper amount of make-up air flow rates.

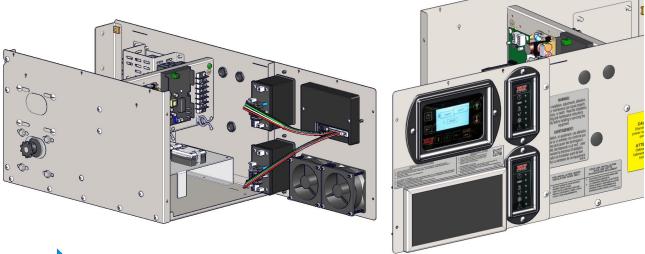
All ovens are tested at the factory for functional operation. Operation is verified and adjustments are made to ensure proper function. However, field conditions are sometimes different than factory conditions. It is necessary to have an authorized service technician verify operation and make field adjustments if needed.

The Oven Initial Start-Up Checklist, found at the end of this manual, must be completed (both sides) at time of installation, signed by the Customer and returned to XLT and the Authorized Distributor to initiate Warranty Policy. If the Start-Up Checklist is not filled out completely and returned to XLT, the Warranty will not be honored.

Start-up Procedure

- 1. Ensure that all ovens have been installed in accordance with the Installation & Operation Manual and that all utilities are connected to the ovens in compliance with local building codes.
- 2. Fill out Step 1 on the checklist with all information and print legibly.
- 3. Place all control boxes in service position. Start each oven and complete form.
- 4. Complete Start-up checklist with owner signature and return to XLT.

Service Position





All XLT ovens will come programmed for a bake time of 10:00 minutes and a temperature of 800°F/427°C. End users are responsible for determining oven settings. The tables below indicate minimum and maximum values for bake time and temperature.

Conveyor Belt Times (Min:Sec)								
Oven	MINIMUM	MAXIMUM						
Models		WAANVOW						
2336	1:30	20:00						

Oven Operating Temperature Range								
Oven	MINIMUM	MAXIMUM						
Models								
2336	200° F	900° F						
2330	176° C	482° C						

Oven Will Reach 1000°F In Self Clean Mode



OVEN OPERATION





Press the time button for three (3) seconds. To adjust belt time use either the UP or DOWN arrow. Press ENTER to save. If split belt press the time button to change to other time once first time is saved.



Power Oven Off (Hold for one (1) second)



29

OVEN OPERATOR CONTROLS



30

Read and understand steps first. Screens will auto exit if no activity is sensed.

Factory Tech Mode

To enter Factory Tech Mode press and hold the two (2) arrow buttons for ten (10) seconds.

Software Version SOFTWARE VERSION MC, TC, & UI Software Version. Press Down arrow to go to next screen. Image For TC: UER 003 MC1: VER 013 Reference Only - See XLT For Correct Version. MC2: VER 013 UI: UER 045 Serial Number SERIAL NUMBER ENTRY ENTER button to make changes. Use side to side arrows to scroll to next character position. Use Up/Down arrows to change values and press ENTER to accept and ad-65000-H-01-2015/01 vance. Elapsed Time ELAPSED TIMETHRSJ Elapsed time "Total Operation" and "Since Last Filter Cleaning". Elapsed time total [65] HRS TOTAL [65]SINCE FILTER CLEAN cannot be reset. Press ENTER to advance. 360 HR INTERVAL Belt Length BELT LENGTH There is currently only 36 belt length. 36 Belt Width BELT WIDTH There is currently only 23 belt width. 23 Split Belt SPLIT BELT? MC1 is for left belt and MC2 is for right belt. Factory default is NO. To change press ENTER. Use Up/Down arrows to change to YES (still flashing). Press ENTER to ac-YES cept and advance. Remote Hood Switch REMOTE HOOD SWITCH Factory default is NO. If there is a Remote Hood Switch installed, then press ENTER INSTALLED? and NO flashes. Use Up/Down arrows to change to YES. Press ENTER to accept and NO. advance. Temp Offset Adjust TEMP OFFSET ADJUST: Factory default is zero. Allows the field tech to make adjustments up to +/- 20 degrees INCREASE HEAT(+) in temperature. DECREASE HEAT(-) OFFSET TOPE Ø OFFSET BTME Ø

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OVEN OPERATOR CONTROLS

High Temp

Can be reduced in only 10 degree increments from factory default of 1000 degrees Fahrenheit (Self Clean mode temperature). No less than 500 degrees Fahrenheit. To change press ENTER and use Up/Down arrows to change and press ENTER to accept and advance.

Low Temp

The Oven can be reduced to 200 degrees Fahrenheit the factory default is 250 degrees Fahrenheit. To change press ENTER and use Up/Down arrows to change and press ENTER to accept and advance.

Belt Direction

If the belt direction needs changed from either Left to Right or Right to Left, then press ENTER and use Up/Down arrows to change the setting then ENTER to accept and advance. If the conveyor is a split belt, then press ENTER once again and use the TIME button to toggle between belts, Up/Down arrows to change the settings and then press ENTER to accept and advance. The wire belt is non-directional and doesn't physically need changed.

Beeper Button Test

Press ENTER to enter setting. A beep with each press of a button. Press ENTER to exit.

Menu Mode (Optional)

Menu Operation

BEEPER BUTTON TEST

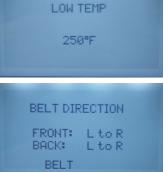
- 1. To enter Menu Mode press MENU.
- 2. The number in the lower right hand corner will begin flashing.
- 3. Scroll through the menus by pressing Up/Down arrows (Max of twelve 12 preset menus).
- 4. To select desired menu press ENTER. The number should have a solid black box around it.
- 5. To change to another menu selection press MENU and the solid black box will disappear and the number will start flashing.
- 6. When the number is flashing pressing MENU will exit Menu Mode.

Change Menu Setting

- 1. To change a setting, when the number is flashing go to desired preset and press ENTER and MENU for three (3) seconds.
- 2. TEMP should start flashing. Use Up/Down arrows to select temp then press ENTER.
- 3. TIME should start flashing. Use Up/Down arrows to select time then press and hold ENTER and MENU for three (3) seconds to save preset.







HIGH TEMP

1000°F

Additional User Options

Lock Settings

- 1. To lock and unlock oven time and temperature press TIME and ENTER for three (3) seconds till the LUI beeps once.
- 2. Then press TEMP, TIME, and then TEMP within three (3) seconds to lock settings.
- 3. A lock or unlock symbol will show up in the lower left corner of the LUI.

Fahrenheit To Celsius

1. To change temperature from Fahrenheit to Celsius press and hold TEMP and ENTER for three (3) seconds and the settings will change.

Self Clean

1. To start the self clean operation, press the self clean button. After you give confirmation, the oven will increase temperature to 1000° F (538°C) and hold for one (1) hour to burn off any food product that has accumulated on the heating panels. Once the hour is over, the oven will automatically shut off. It is not recommended to leave the oven unattended while the self clean operation is in process.

Oven Control LED's

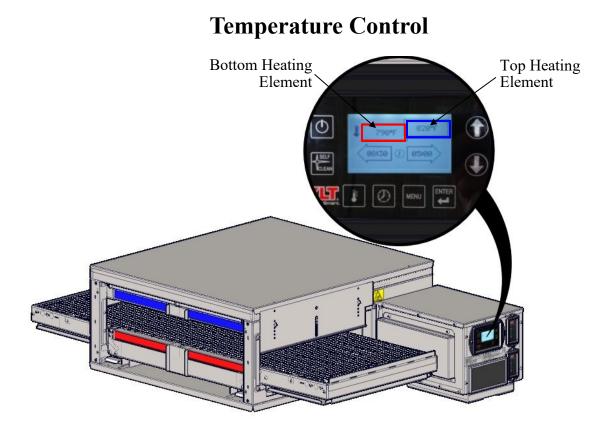


LED's Status:

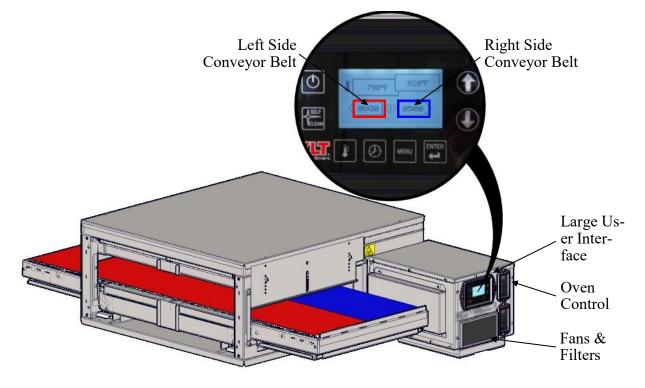
- 1. Power Green (Illuminated when oven has power)
- 2. Conveyor Green (Illuminated when conveyors are active)
- 3. Heat Green (Illuminated when the SSR receives power)
- 4. Self Clean Green (Illuminated when oven is in self cleaning mode)
- 5. Cool Down Green (Illuminated when oven is in cool down mode)
- 6. Alarm Red (Illuminated when an alarm is tripped)

(All LED's on for reference)





Split Belt Conveyor Time Control





OVEN CLEANING

Your XLT oven is constructed of stainless steel. Most commercial cleaning agents may be used safely on all stainless steel surfaces. Check application restrictions on product label prior to usage. Observe recommended precautionary and safety measures as dictated by the product manufacturer.

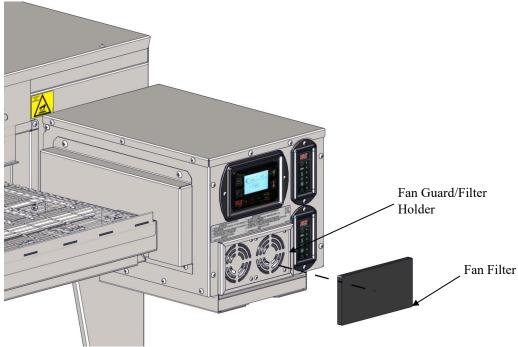
Do not use caustic cleaner on the conveyor bearings.

Do not use abrasive cleaners or products containing bleach. Bleach may cause stainless steel to discolor and/or corrode. Areas with heavy buildup should be sprayed with appropriate cleaner and allowed to soak for up to five (5) minutes prior to wiping clean.

Do not use abrasive pads as they can scratch stainless steel surfaces. Always wipe with the "grain" of the surface to maintain appearance.

Do not use caustic cleaners on the control panel and/or electronic components. Only use cleaners compatible with Lexan® on the face of the Large User Interface or Oven Controls.

The most critical items to be cleaned are the filters on the cooling fans. The filters are held in place by the stainless steel fan guard/filter mount and can be washed several times. Regular cleaning of the filters is important to maintain air circulation within the control box. Depending upon store conditions, the filters should be cleaned daily or as they get clogged with dust. Please contact XLT for replacement parts.



Cooling Filter Maintenance

- 1. When cooling filters need to be cleaned an alarm will appear on the LUI saying "FILTER".
- 2. Press the MENU button to enter the "FILTER RESET" screen.
- 3. Once the filter is cleaned, press ENTER to reset the filter timer. This will take you to another screen which will show you the timer back at 00:00 and will exit after five (5) seconds.
- 4. If you wish to bypass alarm press the MENU button and it will clear the alarm for an additional two (2) hours. Then the "FILTER" alarm will appear again.





Oven must be cool and all power to the oven and hood turned off before any cleaning or maintenance is done.



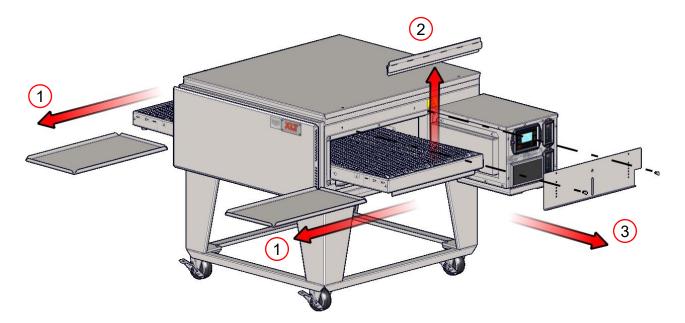
If the oven is to be removed from its installed location for cleaning or servicing, the following procedure is to be followed:

- Shut off main electrical disconnect 1.
- 2. Unplug electric cord, if equipped
- 3. Unlock casters
- 4. Disconnect restraint
- 5. Disconnect Hood Relocation Cords (if appli- 11. Follow normal starting instructions cable)
- 6. When servicing or cleaning is complete, move oven to original location
- 7. Connect restraint
- 8. Lock Casters
- 9. Plug in electric cord, if equipped
- 10. Turn on main electrical disconnect



Read and understand the next eleven (11) steps first. They illustrate how to remove components from the oven for cleaning.

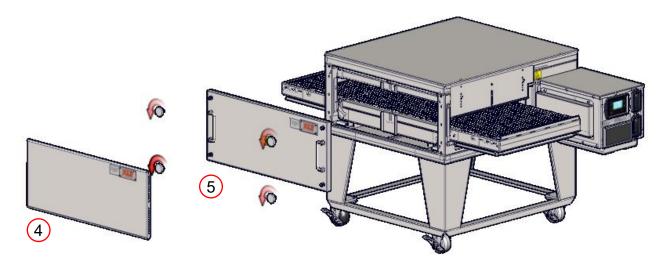


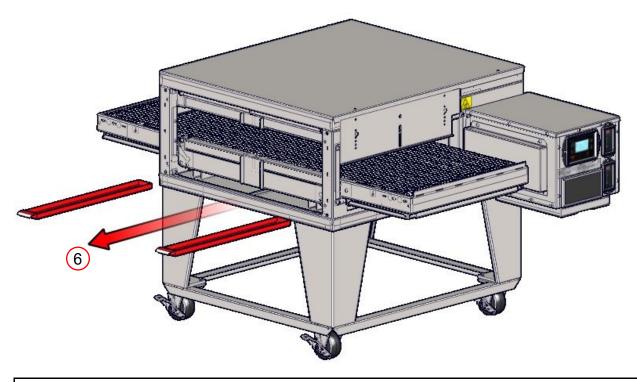






Front Panels can weigh up to 27 lbs. [13 kg]. Use caution when lifting.







DO NOT spray liquid cleaning agents in the slots and holes in the following locations:Rear of Control BoxUnderneath Control Box



As with any appliance, periodic maintenance is required. Many factors affect this schedule such as product mix and hours of usage. An example schedule is included.

Oven Maintenance Schedule							
			Weekly	Monthly	Semi- Annual		
Cleaning							
	Empty Crumb Trays						
	Wipe down Front, Sides, & Top						
	Wipe down Control Box & Control Panel *						
	Run Self Clean Mode						
	Clean Fan Filters						
	Remove large debris from Conveyor						
	Remove debris from inside Bake Chamber						
	Clean grease trays inside Bake Chamber						
	Clean Heating Elements						
	Clean inside Bake Chamber						
	Clean Conveyor Assembly						
Inspection							
	Check Fan Filters for dirt						
	Check Conveyor Wire Belt for Stretch						
	Check Conveyor Drive Roller Chain for Stretch						
Adjust							
	Conveyor Wire Belt						
Lubricate							
	Conveyor Drive Roller Chain						
Replace							
	Fan Filters						

* Do not use caustic cleaners on the control panel. Only use cleaners compatible with Lexan® on the face of the Large User Interface or Oven Controls.

* Do not use caustic cleaners on conveyor bearings.

* Do not use water jet to clean ovens.

Contact a factory representative or a local service company to perform all other maintenance and repairs.



Oven must be cool and all power to the oven turned off before any cleaning is done.



OVEN TROUBLESHOOTING

Proper Cooking

Experimentation is about the only way to determine proper time and temperature settings. While your product may look perfectly cooked on the outside, the inside may be undercooked. A thermometer is necessary to determine if food items are being properly cooked. Most health departments have rules and regulations that establish minimum temperatures for internal food temperatures. Most operators want to cook foods as fast as possible in order to serve more customers per hour. However, cooking foods slower is the only way to achieve a proper internal temperature. If your food products look acceptable on the outside, but have an internal temperature that is too low, then lowering the temperature and decreasing the belt speed (thereby increasing the cook time), will be necessary.

Several factors may affect the cooking performance and characteristics:

- Oven temperature (generally affects color)
- Conveyor speed (generally affects doneness)
- The type of pan used
- Raw ingredient temperature (frozen?)

XLT ovens can be configured to cook a wide variety of food items. We encourage you to experiment by trying different temperatures and belt speeds. XLT can assist you with your oven/ product configurations.

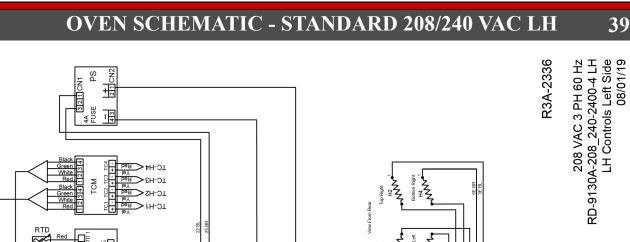
Mechanical Function

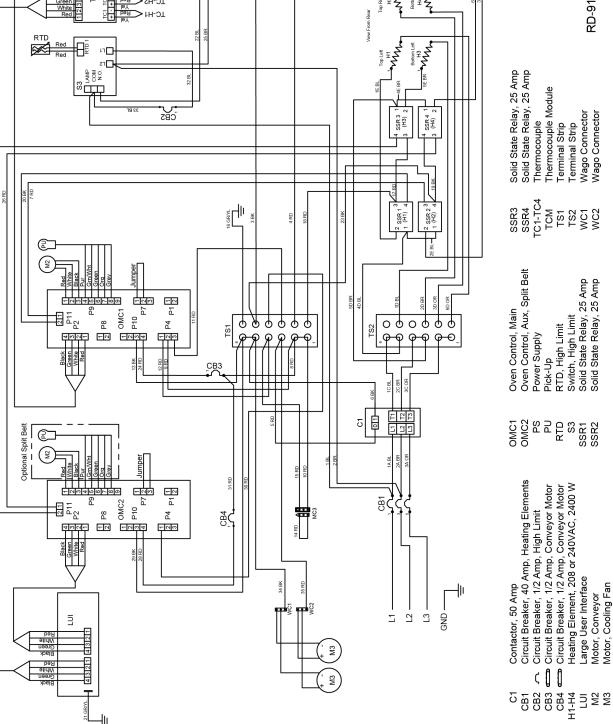
If your oven does not function properly, please verify the following conditions:

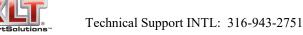
- 1. Verify that the power cord to the oven is connected and the disconnect is in the "on" position.
- 2. Check to see that the circuit breakers in the building electrical service panel have not been tripped or turned off.
- 3. Check all circuit breakers on the oven control panel to ensure they have not been tripped.
- 4. Ensure proper voltage, amperage, and wire size.

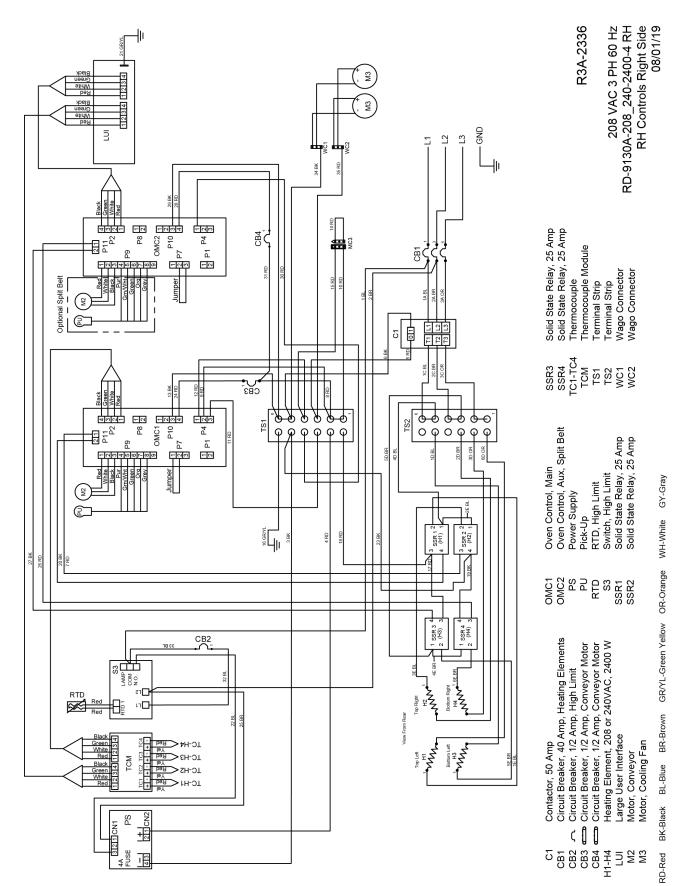
If your oven still does not function properly, XLT has qualified customer service personnel that can provide assistance on any type of XLT oven problem you may experience. Technical support is available 24/7/365 at 888-443-2751, or visit <u>www.xltovens.com</u>.





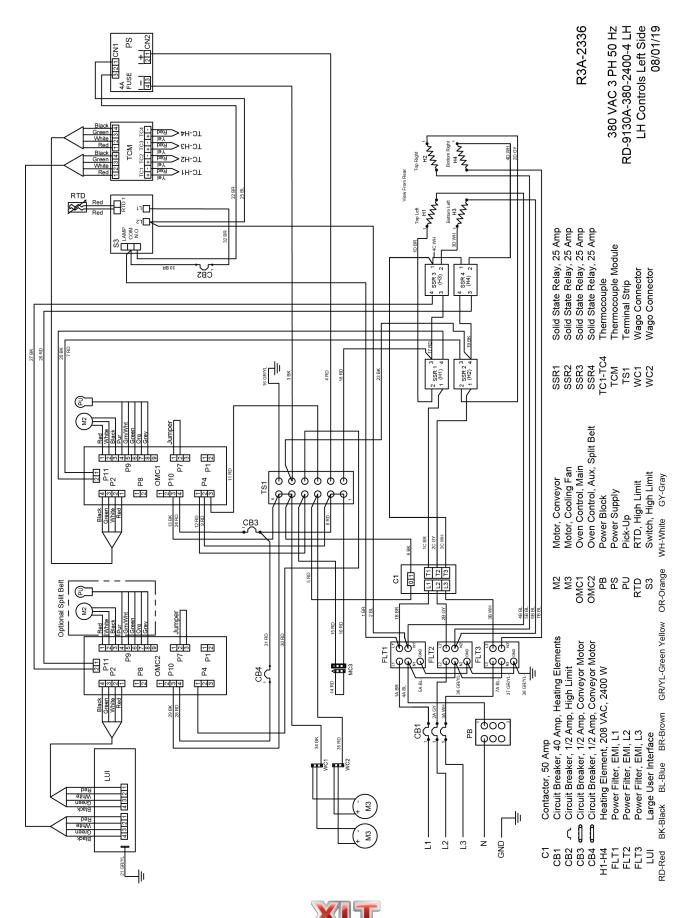






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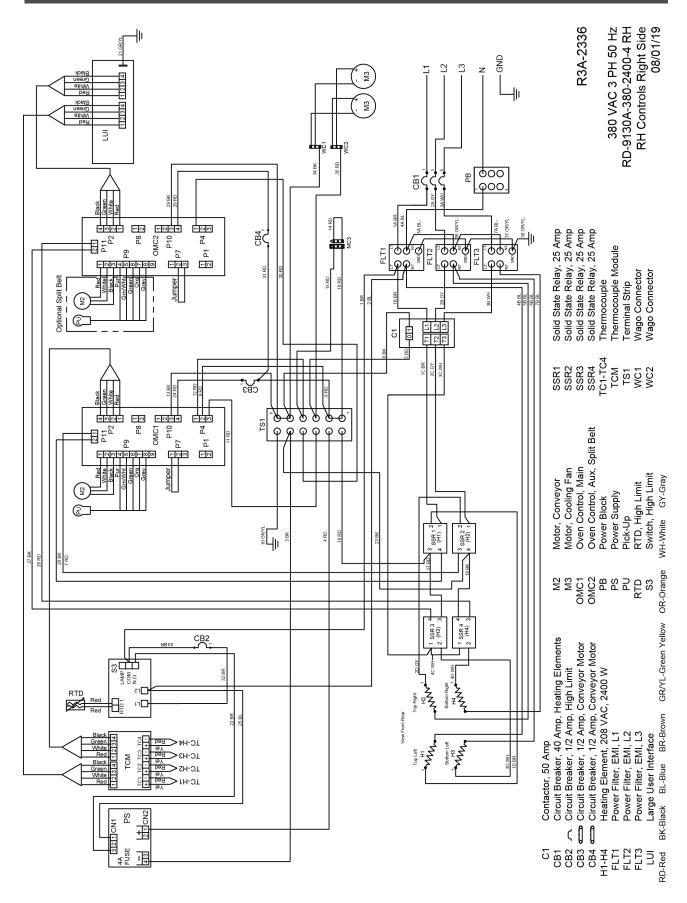


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CERTIFICATIONS

Product Certifications and Applicable Codes

Radiant Oven will be Certified to the following standards:

Standard XLT Oven Certifications¹ :

XLT Electric Ovens:

- 1. UL197:2010 Ed.10 Commercial Electric Cooking Appliances
- 2. NSF 4-2016 Sanitation for Commercial Cooking, Rethermalization, and

Powered Hot Food Holding and Transport Equipment

World XLT Oven Certifications¹:

XLT Electric Ovens:

- 1. IEC 60335-2-42:2002 +AMD1:2008 +AMD2:2017 Safety of Household Appliances and Similar Electrical Appliances
- IEC 60335-1:2010 +AMD1:2013 +AMD2:2016 Household and similar electrical appliances -Safety Part 1- General requirements; Low Voltage Directive (LVD)
- 3. EN 55014-1:2006 +A1:2009 +A2:2011 EMC household appliances, electric tools & similar appliances Part 1-Emmisions
- 4. EN 55014-2:2015 EMC household appliances, electric tools & similar appliances Part 2-Immunity
- 5. EN 62233:2008 Measurement methods for electromagnetic fields of household appliances and similar apparatus with regard to human exposure



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Radiant Oven Initial Start-up Checklist - Remove & Return to XLT

Start-Up Information Date of Start-Up: Start-Up by: XLT Other Phone #: Start-Up Performed by: Installer Information Date of installation: Installed by: XLT	XLT PO Box 9090 Wichita, KS 67277 FAX: 316-943-2769 Radiant Oven Size: 2336						
Company: Phone #: Installed by:							
Contact Information							
Store Name:Address:							
City: State: Zip: Phone #:							
E-mail:Contact P	erson:						
Electrical							
Utilities present at installation:							
Electrical utilities accessible:	e electrical circuit per oven: \Box Yes \Box No						
Facility Information: Freestanding Strip Mall New co	onstruction \Box Existing location \Box Remodel						
Oven Location: Against wall In corner Island							
Restraint Cable installed on bottom oven: \Box Yes \Box No							
HVAC/Contractor Contact: Address:							
City: State: Zip: Phone #:							
E-mail:							
Hood manufacturer	_						
Interlock system for non-XLT hood: \Box Yes \Box No Air bala	ance test performed: \Box Yes \Box No						
Smoke test preformed: \Box Yes \Box No							
Installation & Operation Manual presented to store operator:	$\Box_{\mathrm{Yes}} \Box_{\mathrm{No}}$						
Customer or store operator shown how to disassemble and clean ovens: \Box Yes \Box No							
All Oven features explained:							
Ovens ran for 30 min: \Box Yes \Box No							
Air-born contaminates: Flour Cornmeal Grease Other							
On-Site food prep:	ok performed: $\Box_{\text{Yes}} \Box_{\text{No}}$						
Product:							

1st step: Fill out all information and print legibly

Radiant Oven Initial Start-up Checklist - Remove & Return to XLT

2nd step: Place all control boxes in service position and document settings. Start each oven and complete form below.

<u>Oven #1</u>		□ _{N/A}	Remove heater shipping clips:	
Model #:				
Serial #:				
Electrical Supp	oly (per oven):			
	Volts	Amps	Hz	Phase
Oven #2		□ _{N/A}	Remove heater shipping clips:	
Model #:				
Serial #:				
Electrical Supp	oly (per oven):			
	Volts	Amps	Hz	Phase
Oven #3		□ _{N/A}	Remove heater shipping clips:	
Model #:				
Serial #:				
Electrical Supp	bly (per oven):			
	Volts	Amps	Hz	Phase
Oven #4		□ _{N/A}	Remove heater shipping clips:	
Model #:				
Serial #:				
Electrical Supp	bly (per oven):			
	Volts	Amps	Hz	Phase
Customer Signa	ature:		Date:	

NOTES



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47